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ABSTRACT

A novel plant gene is disclosed, which is a member of the mdr family of genes encoding ABC transporters. The gene is inducible by NPPB and auxin, and is preferentially expressed in roots upon induction. The gene is useful for detoxification of certain xenobiotics to protect plants from the detrimental effects of such compounds. The protein encoded by the gene is an auxin transporter. Also disclosed are plants the over-express and under-express this mdr gene.